Notebook, N-00-07-13

N-00-07-13

XE-172

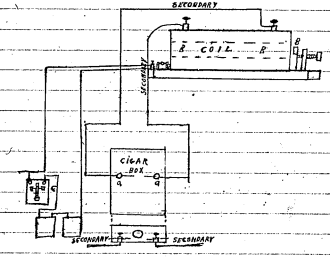
Experiment upon

Lamp for Cheap Hand Stencils

Laboratory Charge No 1049

Louis Alt

Experiment Started this 16 day of July 1900 A.D. Started on ending of experiment Crude working model this 13th Day of July 1900 A.D. Finished 1900 A.D.



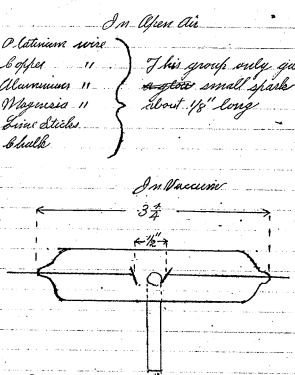
A cigar box with a 1" hole at one end and two binding posts a a was made to connect within with a glass tube or other substance through which current may be passed, box was made dark. The current was led from 2 Sypt E Chloride Accumulators to the Coil the vibrator of which was short circuited to Morse Telegraph Key C thence back to Battery two secondaries led to binding posts a a

In Open Air

Platinum wire
Copper "
Aluminum "
Magnesia "
Lime Sticks
Chalk

} This group only gave ~~a very~~ small spark about 1/8" long

In Vacuum



(In many salts no discs were used)

Copper	and Calcium Cyanide	(No Good)
"	" Nickel "	(Fair)
"	" Chromium "	(No Good)
"	" Molybdenum "	(No Good)
"	" Lead "	(Fair)
"	" Iron "	(No Good)
Silver	" Strontium "	(No Good)
Calcium	Cyanide Copper Ferricyanide	(No Good)

Uranium and Cadmium Tungstates (Good)

Next in the same kind of a glass tube were mounted 1/2 inch apart discs

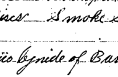
□ 3/8 square PLATINUM PLATINUM

with platinum leads

1. Copper discs
2. Aluminum discs Made up the least
3. Platinum discs Smoke Glass

Made Platinic Cyanide of Barium which was fair

Tungstate of Calcium gave best Results also made such a Cenif



poles Sten foil C = Calcium Tungstate painted to the glass by means of heat Quinine Sulphate Not Good

Barium Sulphide loses properties on exposure to light

Made Sulfur Dioxide which was not very good.
Zirconium Oxide